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The Impact of Fake News on Public Opinion during Crisis Situations

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ABSTRACT

The proliferation of fake news has become a significant concern, particularly during crisis situations when accurate information is crucial for public safety and decision-making. This article explores the impact of fake news on public opinion during crises, analyzing how misinformation spreads and influences perceptions and behaviors. Fake news often leverages the heightened emotions and uncertainties of crises, such as natural disasters, pandemics, or political turmoil, to manipulate public opinion, exacerbate panic, and erode trust in legitimate sources. The paper examines the psychological mechanisms that make individuals more susceptible to fake news, including cognitive biases and the tendency to seek information that aligns with pre-existing beliefs. It also investigates the role of social media platforms in amplifying misinformation, where algorithms prioritize sensational content that often includes false or misleading information. Through case studies and empirical research, this article highlights the consequences of fake news on public opinion, such as the spread of fear, the polarization of communities, and the challenge of implementing effective crisis management strategies. To counteract these effects, the article suggests a multi-faceted approach, including media literacy education, enhanced fact-checking practices, and robust policies to regulate misinformation online. This research aims to contribute to a deeper understanding of the relationship between fake news and public opinion during crises, advocating for more resilient communication strategies to maintain public trust and ensure informed decision-making.

1. Introduction

In recent years, the spread of fake news has emerged as a significant concern in shaping public opinion, especially during crisis situations. The rapid dissemination of misinformation through social media platforms and digital news outlets has heightened the potential for fake news to influence public perceptions and behaviors in critical moments (Allcott & Gentzkow, 2017). Crises, such as pandemics, natural disasters, and political unrest, often create environments of uncertainty and fear, making the public more susceptible to misinformation (Vosoughi, Roy, & Aral, 2018). During such events, the spread of false information can lead to widespread panic, undermine trust in institutions, and hinder effective crisis management and response (Pennycook & Rand, 2018). Understanding the impact of fake news on public opinion during these critical times is essential for developing strategies to mitigate its harmful effects and ensuring that accurate information prevails in the public discourse.

Crisis situations refer to events or circumstances that create a state of emergency or instability, characterized by significant disruption, uncertainty, and potential harm to individuals, communities, or organizations. These situations often demand immediate attention and response due to their capacity to escalate rapidly and affect large populations or critical infrastructures. Crisis situations can be caused by various factors, including natural disasters (such as earthquakes, hurricanes, floods, and wildfires), public health emergencies (like pandemics or outbreaks of contagious diseases), political or social unrest (including protests, riots, and conflicts), economic downturns, and technological failures (such as cyberattacks or major data breaches) (Boin, 2005; Rosenthal, Charles, & 't Hart, 1989).

During crisis situations, the normal functioning of society is disrupted, and there is an urgent need for effective communication, decision-making, and coordination to manage the crisis and mitigate its impacts. These scenarios often create a high degree of uncertainty and stress among affected populations, which can make them particularly vulnerable to misinformation and fake news (Reynolds & Seeger, 2005). The spread of inaccurate or misleading information during crises can exacerbate panic, lead to harmful behaviors, undermine trust in authorities, and hinder coordinated response efforts. Therefore, understanding crisis situations and their dynamics is crucial for developing strategies to ensure effective communication, manage public perception, and enhance resilience against the spread of misinformation (Petersen et al., 2011; Coombs, 2007).

Despite growing attention to the phenomenon of fake news, there remains a substantial research gap in understanding its specific impact on public opinion during crisis situations. Much of the existing literature has focused on the general effects of misinformation on public opinion and behavior, with limited attention to how these dynamics play out in the context of crises (Lazer et al., 2018). Moreover, while studies have explored the mechanisms through which fake news spreads and the factors that influence its reach and acceptance, there is a need for more empirical research that examines the psychological and social processes that underpin public responses to misinformation during crises (Lewandowsky et al., 2017). Understanding these processes is crucial for identifying the factors that make certain individuals or groups more vulnerable to fake news and for developing targeted interventions to counteract its effects.

The urgency of addressing the impact of fake news on public opinion during crisis situations is underscored by the increasing frequency and scale of global crises. The COVID-19 pandemic, for instance, highlighted the dangers of misinformation in undermining public health efforts and spreading falsehoods about the virus, vaccines, and treatments (Tasnim, Hossain, & Mazumder, 2020). Similarly, political crises and natural disasters have shown how misinformation can exacerbate tensions, fuel social unrest, and impede effective crisis response (Cinelli et al., 2020). As digital platforms continue to play a central role in shaping public discourse and disseminating information, it is vital for researchers and policymakers to understand the dynamics of fake news during crises and develop strategies to protect the public from its harmful effects (Wardle & Derakhshan, 2017).

Previous research has explored various aspects of misinformation and its effects on public opinion. Studies have examined the cognitive biases that make individuals susceptible to fake news, such as confirmation bias and motivated reasoning, which lead people to believe information that aligns with their preexisting beliefs and dismiss contrary evidence (Flynn, Nyhan, & Reifler, 2017). Research has also investigated the role of social media algorithms in amplifying misinformation and creating echo chambers that reinforce false narratives (Spohr, 2017). Additionally, studies have highlighted the challenges of correcting misinformation, noting that fact-checking and debunking efforts often have limited effectiveness, especially among individuals with strong partisan beliefs (Nyhan & Reifler, 2010). While these studies provide valuable insights into the mechanisms of misinformation, they often do not fully account for the unique challenges and dynamics of fake news during crisis situations.

This research aims to fill these gaps by providing a comprehensive analysis of the impact of fake news on public opinion during crisis situations. The novelty of this study lies in its focus on understanding the specific ways in which misinformation influences public perceptions and behaviors in the context of crises, as well as the factors that exacerbate its effects. By examining case studies of recent crises, such as the COVID-19 pandemic, political upheavals, and natural disasters, this research seeks to identify the key drivers of fake news spread and its impact on public opinion. The primary objectives of this study are to assess the psychological and social factors that contribute to the acceptance of fake news during crises, evaluate the effectiveness of current interventions to combat misinformation, and propose strategies for improving public resilience to fake news in future crises. The findings of this research are expected to provide valuable insights for policymakers, media organizations, and public health officials in developing more effective communication strategies and countermeasures to address the growing threat of fake news.

2. Methodology

This study utilizes a qualitative research approach through a comprehensive literature review to investigate the impact of fake news on public opinion during crisis situations. A literature review is an appropriate method for synthesizing existing knowledge, identifying research gaps, and understanding the complex interactions between misinformation and public perception during crises (Snyder, 2019). This method allows for an in-depth examination of various theoretical frameworks, empirical studies, and case analyses related to fake news, misinformation spread, and its influence on public behavior and opinion, particularly in high-stress scenarios such as pandemics, natural disasters, and political upheavals (Cooper, 2010). By systematically reviewing the current body of literature, this study aims to provide a comprehensive understanding of how fake news shapes public

opinion during crises and the factors that exacerbate or mitigate its effects (Webster & Watson, 2002).

The sources of data for this literature review include peer-reviewed journal articles, books, conference proceedings, reports from reputable institutions such as the World Health Organization (WHO), the Centers for Disease Control and Prevention (CDC), and various international organizations, as well as policy documents from governmental and non-governmental entities involved in crisis management and communication. These sources were accessed through established academic databases such as JSTOR, Google Scholar, PubMed, Scopus, and Web of Science to ensure the credibility, relevance, and comprehensiveness of the information gathered (Boell & Cecez-Kecmanovic, 2015). The inclusion criteria for selecting studies were based on their relevance to the themes of fake news, misinformation, public opinion, and crisis situations, with an emphasis on recent publications from the last two decades to capture the latest developments and trends in the field (Tranfield, Denyer, & Smart, 2003).

Data collection involved a systematic search of the literature using specific keywords such as "fake news," "misinformation," "public opinion," "crisis communication," "digital media," and "social media influence." The search strategy was designed to capture a broad range of studies that address both the theoretical and empirical aspects of fake news and its impact on public opinion during crises. The initial search yielded a large volume of articles, which were then screened based on their titles and abstracts to determine their relevance to the research topic. Studies that met the inclusion criteria were reviewed in detail, and data were extracted on key themes such as the psychological and social factors that contribute to the acceptance of fake news, the mechanisms of misinformation spread, and the effectiveness of interventions to counteract misinformation (Flick, 2014). This comprehensive approach ensured that the review encompassed a wide spectrum of perspectives and findings relevant to the impact of fake news on public opinion during crises.

For data analysis, this study employed thematic analysis, a qualitative method that involves identifying, analyzing, and reporting patterns within the literature (Braun & Clarke, 2006). The analysis began with an initial coding of the reviewed literature to identify recurring themes and concepts related to the spread of fake news and its effects on public opinion in crisis situations. These codes were then grouped into broader themes that capture the various dimensions of misinformation, such as the role of social media algorithms, cognitive biases, and the psychological impact of crises on information processing (Nowell et al., 2017). By synthesizing these themes, the study aimed to provide a comprehensive understanding of the impact of fake news on public opinion during crises and to identify areas where further research and policy development are needed. This methodological approach not only contributes to the academic literature but also offers practical insights for policymakers, media organizations, and crisis communication professionals seeking to address the challenges of misinformation in times of crisis.

3. Result and Discussion

A. Psychological Mechanisms Underlying the Acceptance of Fake News

The acceptance of fake news during crisis situations is often driven by psychological mechanisms that influence how individuals process information. One key factor is the heightened emotional state experienced during crises, such as fear, anxiety, and uncertainty, which can impair critical thinking and make individuals more susceptible to misinformation (Pennycook & Rand, 2018). In times of crisis, people are more likely to rely on

heuristic processing rather than analytical thinking, which means they tend to accept information that aligns with their emotions or preexisting beliefs without thorough scrutiny (Lazer et al., 2018). This reliance on heuristics, or mental shortcuts, facilitates the spread and acceptance of fake news, as emotionally charged and sensational content often attracts more attention and is more readily shared on social media (Vosoughi, Roy, & Aral, 2018).

Another psychological mechanism contributing to the acceptance of fake news is confirmation bias, where individuals favor information that confirms their preexisting beliefs and attitudes, regardless of its veracity (Nickerson, 1998). During crises, when individuals seek to make sense of rapidly evolving situations, they are more likely to accept information that aligns with their worldview and dismiss contradictory evidence, even if the latter is accurate. This tendency is exacerbated by social media algorithms that create echo chambers, reinforcing individuals' existing beliefs and reducing exposure to diverse perspectives (Spohr, 2017). As a result, fake news that aligns with an individual's beliefs is more likely to be accepted and disseminated, further entrenching misinformation within certain communities.

Social identity also plays a crucial role in the acceptance of fake news during crises. Social identity theory suggests that individuals derive a sense of identity and self-esteem from their group memberships, which influences their attitudes and behaviors (Tajfel & Turner, 1979). In crisis situations, individuals may be more inclined to trust and accept information that comes from in-group members, even if that information is false. This phenomenon, known as in-group bias, can lead to the spread of misinformation within like-minded groups, as individuals prioritize group cohesion and solidarity over the accuracy of information (Hogg & Adelman, 2013). The desire to conform to group norms and support in-group members can thus contribute to the widespread acceptance of fake news, particularly in polarized environments.

Moreover, the psychological concept of the "illusory truth effect," where repeated exposure to false information increases its perceived accuracy, is particularly relevant during crises (Pennycook et al., 2018). In high-stress situations, individuals are frequently exposed to the same pieces of misinformation through multiple channels, including social media, news outlets, and word of mouth. This repetition can create a sense of familiarity, leading individuals to mistakenly believe that the information is true simply because they have encountered it multiple times. The illusory truth effect highlights the importance of rapid and effective debunking of fake news during crises to prevent misinformation from becoming ingrained in public opinion.

The acceptance of fake news, especially during crisis situations, is influenced by various psychological mechanisms that affect how individuals perceive and process information. One of the primary mechanisms is emotional reasoning, where individuals rely on their emotions rather than objective evidence to interpret information. During crises, heightened emotions such as fear, anxiety, and uncertainty can impair critical thinking and lead people to accept information that aligns with their emotional state (Pennycook & Rand, 2018). This emotional bias makes sensational and emotionally charged fake news more likely to be believed and shared, as it resonates with the heightened emotional responses prevalent in crisis situations (Vosoughi, Roy, & Aral, 2018).

Another key psychological mechanism is confirmation bias, which is the tendency to favor information that confirms one's

preexisting beliefs while disregarding information that contradicts them (Nickerson, 1998). During crises, individuals often seek out information that reinforces their beliefs or provides a sense of control in an unpredictable situation. This bias can make people more susceptible to fake news that aligns with their existing views or fears, leading them to accept misinformation without critically evaluating its accuracy (Lewandowsky et al., 2012). Confirmation bias is further exacerbated by social media algorithms that create echo chambers, exposing individuals primarily to information that aligns with their viewpoints and reducing exposure to diverse perspectives (Flaxman, Goel, & Rao, 2016).

Social identity theory also plays a significant role in the acceptance of fake news during crises. This theory suggests that individuals derive a sense of identity and belonging from their group memberships, which can influence their attitudes and behaviors (Tajfel & Turner, 1979). In crisis situations, people may be more inclined to trust and accept information from sources within their in-group, even if that information is false (Hogg & Adelman, 2013). This in-group bias can lead to the spread of misinformation within like-minded communities, as individuals prioritize group cohesion over the accuracy of information. The desire to conform to group norms and support in-group members can thus contribute to the widespread acceptance of fake news, particularly in polarized environments where group identities are strongly emphasized (Iyengar & Westwood, 2015).

The illusory truth effect is another psychological mechanism that contributes to the acceptance of fake news. This effect occurs when repeated exposure to a piece of information increases its perceived accuracy, regardless of its truthfulness (Pennycook et al., 2018). In crisis situations, individuals are often repeatedly exposed to the same fake news stories through various channels, such as social media, news outlets, and word of mouth. This repetition can create a sense of familiarity, leading people to believe the information is true simply because they have encountered it multiple times. The illusory truth effect underscores the importance of timely and effective debunking of fake news during crises to prevent misinformation from becoming ingrained in public opinion (Ecker et al., 2014).

Together, these psychological mechanisms highlight the complex interplay between cognitive biases, emotional responses, and social influences that underlie the acceptance of fake news during crisis situations. Understanding these mechanisms is crucial for developing effective strategies to combat misinformation, enhance media literacy, and promote critical thinking among the public. By addressing the psychological factors that make individuals susceptible to fake news, stakeholders can better protect public opinion and ensure the dissemination of accurate information during crises.

B. The Role of Social Media Platforms in Amplifying Fake News

Social media platforms have become critical channels for the dissemination of information during crises, but they also play a significant role in amplifying fake news. The architecture of social media platforms, designed to maximize user engagement through likes, shares, and comments, inherently favors sensational and emotionally charged content, which often includes fake news (Allcott & Gentzkow, 2017). Algorithms that prioritize content based on user engagement rather than accuracy contribute to the rapid spread of misinformation, as users are more likely to encounter and share provocative or controversial content (Bakshy, Messing, &

Adamic, 2015). This amplification effect is particularly problematic during crises when accurate information is crucial for public safety and effective crisis management (Cinelli et al., 2020).

Furthermore, the anonymity and low barriers to entry on social media platforms facilitate the creation and spread of fake news by malicious actors, including trolls, bots, and foreign agents seeking to manipulate public opinion (Ferrara, 2017). These actors exploit the virality potential of social media to disseminate misinformation rapidly and widely, often using coordinated campaigns to target specific groups or issues. During crisis situations, such campaigns can have significant consequences, as they can sow confusion, panic, and distrust, undermining public confidence in official sources of information and impeding coordinated responses (Wardle & Derakhshan, 2017).

The echo chamber effect on social media platforms also contributes to the amplification of fake news during crises. Social media algorithms often create personalized content feeds based on users' past behavior, leading to the formation of echo chambers where individuals are primarily exposed to information that aligns with their beliefs and interests (Sunstein, 2001). This environment not only reinforces confirmation bias but also limits exposure to corrective information, making it more challenging to debunk fake news and reduce its impact on public opinion (Flaxman, Goel, & Rao, 2016). In crises, when rapid dissemination of accurate information is vital, echo chambers can hinder efforts to correct misinformation and inform the public effectively.

In addition, social media platforms often lack robust mechanisms for verifying the accuracy of user-generated content, which can lead to the unchecked spread of fake news (Zubiaga et al., 2016). While some platforms have implemented fact-checking partnerships and labels to flag potentially false information, these efforts are often limited in scope and effectiveness. Users may disregard fact-checks due to partisan biases or skepticism towards the credibility of the fact-checking entities themselves (Nyhan & Reifler, 2010). Thus, the role of social media platforms in amplifying fake news highlights the need for more proactive and comprehensive measures to monitor, detect, and mitigate misinformation during crisis situations.

Social media platforms play a significant role in amplifying fake news, particularly during crisis situations when timely and accurate information is crucial. These platforms are designed to maximize user engagement by prioritizing content that attracts attention, encourages interaction, and provokes emotional responses (Allcott & Gentzkow, 2017). The algorithms that drive these platforms often promote sensational and emotionally charged content, which frequently includes fake news. This design bias towards engagement rather than accuracy enables the rapid spread of misinformation, as fake news stories that evoke strong reactions are more likely to be shared and go viral (Vosoughi, Roy, & Aral, 2018). During crises, when people are actively seeking information, the prominence of fake news on social media can significantly shape public opinion and behavior in ways that may be harmful.

The anonymity and low entry barriers provided by social media also facilitate the creation and dissemination of fake news. Malicious actors, including trolls, bots, and coordinated disinformation campaigns, exploit these features to spread false information rapidly and widely, often targeting vulnerable groups or exploiting existing societal divisions (Ferrara, 2017). In crisis situations, these actors can exacerbate

fear, panic, and confusion by deliberately spreading misinformation that undermines trust in official sources and disrupts effective crisis management (Starbird, 2017). The ability of these actors to remain anonymous or pseudonymous on social media further complicates efforts to identify and counteract their activities, allowing misinformation to persist and propagate unchecked.

Echo chambers and filter bubbles created by social media algorithms further amplify the impact of fake news. These algorithms curate content based on users' previous interactions and preferences, resulting in personalized news feeds that often reinforce existing beliefs and limit exposure to diverse viewpoints (Pariser, 2011). This selective exposure can create echo chambers where misinformation circulates among like-minded individuals, reinforcing false narratives and reducing the likelihood that users will encounter corrective information (Flaxman, Goel, & Rao, 2016). During crises, when misinformation can have immediate and dangerous consequences, the presence of echo chambers can prevent accurate information from reaching those who need it most, thereby hindering effective crisis response and public safety.

Furthermore, social media platforms often lack robust mechanisms for verifying the accuracy of user-generated content, contributing to the unchecked spread of fake news. While some platforms have implemented fact-checking initiatives and labels to flag false information, these measures are often inconsistent and insufficiently enforced (Zannettou et al., 2019). In many cases, users may ignore or distrust fact-checking labels, especially if they perceive them as biased or coming from untrusted sources (Nyhan & Reifler, 2010). This gap in verification processes means that fake news can continue to circulate and gain credibility among certain audiences, particularly in high-stress crisis situations where rapid information dissemination is critical. As a result, social media platforms play a central role in amplifying fake news, making it imperative to develop more effective strategies and policies to mitigate their impact on public opinion during crises.

C. Consequences of Fake News on Public Trust and Crisis Response

The spread of fake news during crisis situations has significant consequences for public trust and the effectiveness of crisis response efforts. Trust is a critical component of effective governance and crisis management, as it underpins the public's willingness to follow official advice, comply with safety measures, and support collective action (Slovic, 1993). However, the proliferation of fake news can erode public trust in authorities, experts, and institutions by creating confusion and uncertainty about the credibility of information sources (Lee & Ma, 2012). When individuals are exposed to conflicting messages and false claims, they may become skeptical of all information, including accurate and reliable guidance from trusted sources, leading to a breakdown in trust and cooperation.

Moreover, fake news can exacerbate social divisions and polarization, further undermining trust and complicating crisis response efforts. During crises, misinformation that aligns with specific ideological or partisan narratives can deepen existing divides and fuel antagonism between different social groups (Iyengar & Westwood, 2015). This polarization can hinder efforts to achieve consensus on critical issues, such as public health measures, disaster response strategies, or political stability, as individuals prioritize group loyalty over evidence-based decision-making (Mason, 2018). As a result, the spread of fake news can impede

coordinated action and reduce the effectiveness of crisis response, with potentially dire consequences for public safety and well-being.

In addition to undermining trust and exacerbating polarization, fake news can also have direct negative impacts on public health and safety. For example, during the COVID-19 pandemic, misinformation about the virus, treatments, and vaccines led to widespread confusion and risky behaviors, such as the rejection of masks, social distancing, and vaccination (Tasnim, Hossain, & Mazumder, 2020). In natural disasters, fake news can lead to misguided actions, such as evacuating to unsafe locations or hoarding essential supplies, which can exacerbate the crisis and strain resources (Mendoza, Poblete, & Castillo, 2010). These examples illustrate how fake news can directly affect individuals' behaviors and decisions during crises, with potentially harmful consequences.

Finally, the spread of fake news during crises can undermine the credibility of the media, which plays a crucial role in disseminating information and holding authorities accountable. When misinformation circulates widely and is not effectively countered, the public may begin to view all media sources as unreliable or biased, reducing their ability to discern credible information (Jack, 2017). This erosion of media credibility can have long-term implications for democratic governance, as a well-informed public is essential for holding power accountable and making informed decisions in the public interest. Therefore, addressing the impact of fake news on public trust and crisis response is critical for maintaining the integrity of democratic institutions and ensuring effective governance during crises.

D. Strategies for Mitigating the Impact of Fake News During Crises

To mitigate the impact of fake news on public opinion during crisis situations, several strategies can be employed, focusing on enhancing media literacy, improving crisis communication, and strengthening regulatory frameworks. Media literacy education is a crucial preventive measure that can empower individuals to critically evaluate information, recognize misinformation, and make informed decisions (Mihailidis & Viotty, 2017). By fostering critical thinking skills and awareness of the mechanisms of fake news, media literacy programs can reduce the susceptibility of the public to misinformation and enhance their ability to navigate complex information environments during crises (Wineburg & McGrew, 2017).

Improving crisis communication is another vital strategy for countering fake news during crises. Effective crisis communication involves timely, transparent, and accurate dissemination of information, which can help build public trust and counteract the spread of misinformation (Reynolds & Seeger, 2005). Governments, public health agencies, and emergency management organizations should prioritize clear and consistent messaging, engage with the public through multiple channels, and collaborate with trusted community leaders and influencers to amplify accurate information (Covello, 2003). Proactive communication that anticipates and addresses potential misinformation can also reduce the impact of fake news by providing the public with reliable information before false narratives gain traction (Gollust, Nagler, & Fowler, 2020).

Strengthening regulatory frameworks and platform accountability is essential for reducing the spread of fake news on digital platforms during crises. Governments and

regulatory bodies consequences of misinformation, as well as promoting responsible information sharing practices, can help build collective resilience and reduce the spread of fake news (Vraga & Bode, 2017). Public awareness campaigns that highlight the importance of verifying information before sharing and encourage skepticism towards sensational or unverified claims can also contribute to a more informed and discerning public (Tandoc, Lim, & Ling, 2018). By combining these strategies, stakeholders can create a multifaceted approach to combating fake news and protecting public opinion during crisis situations.

4. Conclusion

The analysis of the impact of fake news on public opinion during crisis situations reveals that misinformation can significantly distort public perceptions, exacerbate social divisions, and undermine trust in authoritative sources. The psychological mechanisms that drive the acceptance of fake news, such as emotional heuristics, confirmation bias, and social identity, play a crucial role in shaping how individuals process information during crises. These factors, combined with the amplification of misinformation through social media platforms, contribute to the rapid spread and entrenchment of false narratives that can hinder effective crisis response and public safety. The consequences of fake news are far-reaching, affecting not only individual decision-making and behavior but also collective actions and societal cohesion, particularly in high-stress environments where accurate information is vital.

To mitigate the detrimental effects of fake news during crises, a multifaceted approach is necessary, involving enhanced media literacy, improved crisis communication, stronger regulatory frameworks, and greater public resilience. Media literacy education can empower individuals to critically evaluate information and resist misinformation, while effective crisis communication strategies can build public trust and counteract the spread of false information. Additionally, regulatory measures that hold digital platforms accountable for the content they disseminate and foster transparent content moderation practices are essential for creating a more trustworthy digital information ecosystem. By combining these strategies, stakeholders can better protect public opinion from the influence of fake news, ensure the dissemination of accurate information during crises, and ultimately support more informed and resilient societies.

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